

**GOVERNMENT OF INDIA
ENVIRONMENT AND FORESTS
LOK SABHA**

UNSTARRED QUESTION NO:1589

ANSWERED ON:14.03.2005

CLEAN DEVELOPMENT MECHANISM PROJECTS

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Will the Minister of ENVIRONMENT AND FORESTS be pleased to state:

- (a) whether India leads the World in terms of number of projects accorded to it by the Clean Development Mechanism (CDM) Executive Board as per provisions of Kyoto Protocol;
- (b) if so, the details of such projects received by India and steps taken to meet Kyoto Protocol directives;
- (c) whether the Government has identified a number of State level institutions for helping developers in project preparation;
- (d) if so, the details thereof;
- (e) whether the implementation of Kyoto Protocol helps in creating a global constituency of investor's financial institutions and industries; and
- (f) if so, the details thereof?

Answer

MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT & FORESTS (SHRI NAMO NARAIN MEENA)

(a) India has so far accorded host country approval (HCA) to 52 eligible projects for participation in Clean Development Mechanism (CDM) under the Kyoto Protocol. As on 8 March 2005 the CDM Executive Board has registered three CDM Project activities from all developing countries including the Project for GHG emission reduction by thermal oxidation of HFC 23 in Gujarat from India.

(b) Annexure giving details of CDM projects is enclosed.

(c) & (d) The Government has identified the following state level institutions for helping developers in project preparation:

- (i) Punjab Energy Development Agency (PEDA)
- (ii) Maharashtra Energy Development Agency (MEDA)
- (iii) Rajasthan Energy Development Agency (REDA)
- (iv) Environmental Policy Research and Institute (EMPRI), Karnataka.
- (v) Environmental Protection Training Research Institute (EPTRI), Andhra Pradesh

(e) & (f) The Kyoto Protocol enables developed countries (Annex-B Parties) to invest in CDM Project activities in developing countries and gain emission credits. On the basis of volume and prices of Certified Emission Reductions (CERs), the Kyoto Protocol is expected to help in creating a global constituency of investor's financial institutions and industries.

ANNEXURE

Projects approved

S.No.	Name of the Project	Type of Project
1	Biomass based power project by Raghu Rama Renewable Energy Limited, Tamil Nadu.	Renewable
2	Bagasse based cogeneration power projects at Balrampur Chini Mills Ltd. Balrampur.	Renewable
3	Bagasse based cogeneration power projects at Haidargarh Chini Mills, Haidargarh.	Renewable
4	HFC 23 Decomposition by Gujarat Flurochemicals Ltd., Gujarat.	Industrial Process
5	COREX II off gas Waste Heat Recovery, Jindal Vijayanagar Steel Ltd.	Energy Efficiency
6	BOF Gas Waste Heat Recovery, Jindal Vijayanagar Steel Ltd.	Energy Efficiency
7	Municipal Solid Waste (MSW) processing cum power generation plant at Lucknow (UP) by Asia Bioenergy Limited (ABIL).	MSW
8	Model Project for increasing the efficient use of Energy using a Coke Dry Quenching system at TISCO Jamshedpur, by TISCO	Energy Efficiency
9	Switching of fuel from Naphtha to Natural gas by Essar Power Limited at their power plant at Hazira in Surat District, Gujarat.	Fuel Switching
10	Switching of fuel from Naphtha to Natural gas by BSES Andhra Power Limited (BAPL) at their CCGT power plant at Samalkot, East Godavri District, A.P.	Fuel Switching
11	Bagasse/ Biomass based 22 MW Cogeneration project by Triveni Engineering & Industries Ltd. at their Deoband sugar plant.	Renewable
12	10 MW Waste Heat Recovery based Captive Power plant by Orissa Sponge Iron Limited at their plant.	Energy Efficiency
13	Bagasse based cogeneration facility by Shree Renuka Sugars Ltd. at their plant in Belgaum District, Karnataka.	Renewable
14	Bagasse based Cogeneration Power Project with Export of Surplus Power at Dhampur, Uttar Pradesh by Dhampur Sugar Mills Limited.	Renewable
15	12 MW Biomass based power project at Prakasam, Andhra Pradesh by Clarion Power Corporation Limited.	Renewable
16	6 MW Biomass based power project at Chittoor, Andhra Pradesh by Rithwik Energy Systems Limited.	Renewable
17	3 MW Wind power project at Chitradurga district, Karnataka by Encon Services Limited.	Renewable
18	Energy Efficiency project by modification of CO2 removal system of Ammonia Plant to reduce steam consumption at Jagdishpur, Uttar Pradesh by Indo Gulf Fertilisers Limited.	Energy Efficiency
19	20 MW Bagasse based Cogeneration Power Project at Bannari Amman Sugars Limited, Nanjangud, Karnataka by Bannari Amman Sugars Limited	Renewable
20	20 MW Bagasse based Cogeneration Power Project at Bannari Amman Sugars Limited, Sathyamangalam, Tamil Nadu by Bannari Amman Sugars Limited.	Renewable
21	Energy Efficiency Initiatives at Lotus Suites and Hotel Orchid, Mumbai	Energy Efficiency

- by Kamat Hotels India Limited.
- 22 9 MW hydel power project at Dobi Village, Kullu District, Himachal Pradesh by Cosmos Consulting. Renewable
- 23 22 MW Bagasse Based Cogeneration Project Activity at Sri Chamundeswari Sugar Limited, Mandya, Karnataka by Sri Chamundeswari Sugar Limited. Renewable
- 24 7.7 MW Rice Husk Based Power Plant at Vandana Vidhyut Limited, Bilaspur, Chattisgarh by Vandana Vidhyut Limited. Renewable
- 25 Optimum utilization of Clinker & Conversion Factor Improvement at Birla Corporation Limited, Chittorgarh, Rajasthan by Birla Corporation Limited. Energy Efficiency
- 26 7.5 MW Mustard Crop Residue based Power Project of Alwar Power Company (P) Ltd., Alwar, Rajasthan. Renewable
- 27 PFC Emission Reduction in HSS Smelter at Indian Aluminium Limited, Hirakud, Orissa Industrial Process
- 28 6 MW Small Hydro Power project at Somanamaradi Village, Deodurga Taluk, Raichur district, Karnataka. Renewable
- 29 '30 TPD Biodiesel Project at Samasthan Narayanpur village, Choutuppal Mandal, Nalgonda District, Andhra Pradesh'. Renewable
- 30 '24 MW Biomass based project at Gujarat Ambuja Cements Limited Ropar, Punjab'. Renewable
- 31 10.25 MW SHP at Chunchi Doddi, Kanakapura (Taluk), Bangalore Rural (District). Renewable
- 32 '5.0 MW Dehar SHP in Bithal Village, Chamba District, Himachal Pradesh' of M/s Astha Projects (India) Ltd. Renewable
- 33 Replacement of coal as fuel by process flue gases for electricity generation' at Industrial Growth Centre, Siltara, Raipur, Chattisgarh of M/s Chattisgarh Electricity Company Ltd. Energy Efficiency
- 34 Thermal Efficiency Improvement Initiatives in Coal Fired Boiler System' at Jaya Shree Textiles-Unit, Rishra, Prabasnagar, West Bengal of M/s, Indian Rayon Industries Ltd. Energy Efficiency
- 35 Waste Heat based 7 MW Captive Power Plant' at Siltara, Raipur, Chattisgarh of M/s Ispat Godavari Ltd. Energy Efficiency
- 36 GHG Emission Reduction by Oxidation of HFC-23 at Refrigerant (HFC-22) manufacturing facility of SRF Ltd." HFC
- 37 4.5 MW Maujhi SHP in Khanyara Village, Kangra District, Himachal Pradesh' of M/s Dharamshala Hydro Power Ltd. Renewable
- 38 Demand-side energy efficiency programme in the Humidification Towers' at Jaya Shree Textiles-Unit, Rishra, Prabasnagar, West Bengal of. Energy Efficiency

M/s Indian Rayon and Industries Ltd

39 Ajbapur Sugar Complex Cogeneration Project' at Ajbapur Village, Lakhimpur Renewable
Kheri District, Uttar Pradesh of M/s DCM Shriram Consolidated Ltd.

40 20 MW Hydroelectric Project located at Samal, Angul District in Orissa Renewable
by Orissa Power consortium Ltd.

41 37 MW Middle Kolab Small Hydroelectric project located at
(i) Tentuliguma Renewable
Village, Koraput District Orissa - 25 MW Middle Kolab project and
(ii) Udegiri
Village, Malkaongiri District Orissa - 12 MW Lower Kolab project by
M/s Meenakshi Power Limited (MPL).

42 RSCL 22 MW Cogeneration expansion project at RSCL Unit 2 Sugar Factory, Renewable
Mundiyampakkam, Villupuram Taluk, Tamil Nadu by M/s Rajashree
Sugars & Chemicals Limited.

43 Reduction of GHG emissions (mainly CO₂) through technological interventions Energy Efficiency
in Small & Medium Enterprises (SMEs) Steel forging cluster units viz. Ludhiana
Handtool Association, Punjab Forging Industries Association and Gobindgarh
Forging Association operating in Punjab represented by their SPV

44 18 MW Jalaput Grid connected Hydroelectric project located at Jalaput, Renewable
Visakhapatnam District, Andhra Pradesh by Orissa Power consortium Ltd.

45 Waste Heat based 8 MW Captive Power Project at OCL India Limited Sponge Energy Efficiency
Iron Works at Rajgangpur, District Sundargarh, Orissa.

46 3.5 MW Rice Husk based Cogeneration Project at Dhandari Kalan at Renewable
Ludhiana Punjab by M/s Nahar Spinning Mills Limited.

47 3.5 MW Rice Husk based Cogeneration Project at Sherpur Woollen Mills, Ludhiana, Renewable
Punjab by M/s Oswal Woollen Mills Ltd.

48 3 MW biomass based Power Project by M/s Deepak Spinners Ltd Energy Efficiency
at village Pagara, Distt.Guna, Madhya Pradesh

49 119 .80 MW Natural Gas Based Combined Cycle Power Plant, at Tanjavur, Fuel switching
Tamil Nadu by M/s Aban Power Company Limited.

50 Reduction in Ordinary Portland Cement consumption in concrete mix utilizing Energy Efficiency
lower cement concrete technology at different locations by
M/s Hindustan Construction Co. Ltd.

51 1050 MW Natural gas based grid connected Combined cycle power generation project Fuel switching
at Akhakhhol by M/s Gujarat Torrent Power Generation Limited.

52 5 Biomass Gasifier Based Power Plants Based Power Plants totaling for different Renewable
locations in Karnataka and Tamil Nadu by Women for Sustainable Development

Projects rejected

S.No.	Name of the Project	Type of Project
1	Dhampur Bagasse based Cogeneration Power Project with export of surplus power	Renewable
2	16 MW Bagasse Cogeneration Power Project at Nanjangud	Renewable